

POWERING THE WORLD FORWARD

YOUR PARTNER FOR STORED ENERGY SOLUTIONS.

Exide Technologies, with operations in more than 80 countries, is one of the world's largest producers and recyclers of lead-acid batteries. We provide a comprehensive and customized range of stored electrical energy solutions. Based on over 120 years of experience in the development of innovative technologies, Exide Technologies is an esteemed partner of OEMs and serves the spare parts market for industrial and automotive applications.

GNB Industrial Power — a division of Exide Technologies — offers an extensive range of storage products and services, including solutions for telecommunication systems, railway applications, mining, photovoltaic (solar energy), uninterrupted power supply (UPS), electrical power generation and distribution, fork lifts and electric vehicles.

Exide Technologies takes pride in its commitment to a better environment. An integrated approach to manufacturing, the distribution and recycling of lead-acid batteries has been developed to ensure a safe and responsible life cycle for all products.

GNB® Industrial Power

USA 877 462 4636

CANADA 800 268 2698

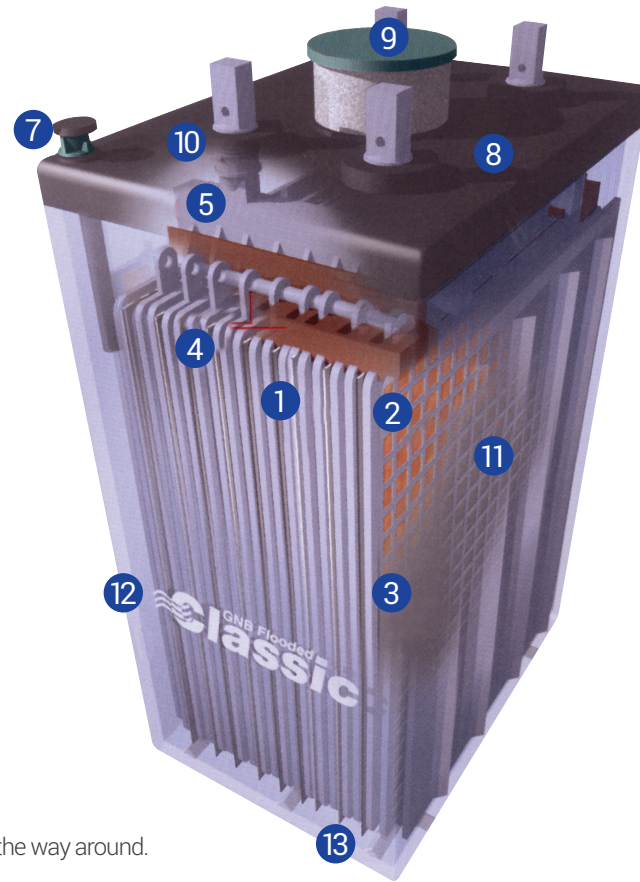


THE FLOODED CLASSIC® ADVANTAGE

GNB® Industrial Power, a division of Exide Technologies, has been manufacturing economical, long-lasting flooded batteries for over a century. Tested and proven in the toughest field conditions, GNB Flooded Classic batteries offer maximum efficiency and reliability for the widest variety of applications including telecommunications, UPS, and electric utilities. The Flooded Classic design is equipped with a lead calcium grid alloy providing long float life (20 years at 25°C), an exclusive post seal design for superior protection against leaks, and a rugged SAN jar & ABS cover (optional flame retardant PVC or polycarbonate available for some models). GNB Industrial Power also offers a full line of battery racks & spill containment systems to complement the Flooded Classic battery.



FLOODED CLASSIC - THOUGHTFULLY DESIGNED, INSIDE AND OUT



- 1 Microporous Separators - Uniform in porosity with deep ribs, separators provide greater electrolyte circulation, maximum current delivery, and superior insulation.
 - 2 Positive Plate - Designed and engineered to provide longer life and maximum power delivery. When combined with GNB Industrial Power-developed oxides, which are automatically blended and applied, it represents one of the most efficient positive plates in the industry.
 - 3 Glass Mat Retainer - Combined with the separator to retain positive active material. Provides electrolyte reservoir for maximum power delivery and supplements insulating qualities of microporous separator.
 - 4 Positive Plate Support - Support evenly distributes positive group weight by use of dual supports and prevents misalignment of plates. Each positive plate is supported by the adjacent negative plate to provide uniform multi-point suspension of the positive plate group. While supporting the weight of the positive plate group, the plate support also insulates the positive hanging lugs from the negative bus bar.
 - 5 Positive and Negative Bus Bars - Bus bars are engineered to give ultimate mechanical stability and matched to transfer the maximum ampere delivery of the plates to the cell posts.
 - 6 Jar-Cover Seal - Tongue and groove Jar-Cover Seal provides a full, positive closure all the way around.
 - 7 Electrolyte Sampling Tube - Tubes are used to permit more accurate specific gravity readings by reducing effects of electrolyte stratification.
 - 8 Cover - Molded of ABS plastic, cover provides a shock-resistant, non-staining cell closure. Some cell types are available in optional PVC or polycarbonate.
 - 9 Combined Vent/Filling Funnel - "Pre-Vent" screw-type combination vent and filling funnel helps prevent external sparks or flames from igniting internal cell gases. Its unique design also helps prevent damage of internal cell components when using hydrometers or thermometers, and permits easy temperature and specific gravity readings.
 - 10 Exclusive Post Seal and Nut - Field proven dual post seal design provides a superior seal through the combined use of both a free floating O-Ring and a flat gasket. A flat gasket is used to provide the primary seal for preventing acid creepage up the post. As a secondary measure, the O-Ring ensures there is an airtight seal between the cover and post, and allows for positive plate growth while minimizing any associated stress on the cover. This double post seal design with its added flat gasket makes GNB Flooded Classic cells virtually impervious to acid creepage. The non-corrosive post seal nut evenly distributes compressive forces throughout the post sealing system. Machined posts provide outstanding accuracy in tolerance and surface finish and thus contribute to a highly reliable seal.
 - 11 Negative Plate - Plates are engineered to match positive plate for maximum power and longer life.
 - 12 Jar - Molded of tough Styrene-Acrylonitrile (SAN) Plastic; available in optional PVC or polycarbonate for some cell types.
 - 13 Element Support System - The entire weight of the element rests on a independent bridge in the bottom of the jar, distributing weight uniformly.
- Electrolyte Level Lines (Not Shown) - Lines are provided on all four jar faces for fast verification that electrolyte level is within recommended limits.

RECYCLE WITH EXIDE

EXIDE TOTAL BATTERY MANAGEMENT (TBM)

Exide is one of the largest secondary recyclers in the world, and one of the few companies with the ability to provide Total Battery Management, helping to divert batteries from the waste stream by returning the recycled materials to new products. Our commitment to recycling and environmental responsibility is unwavering.

MAXIMUM EFFICIENCY AND RELIABILITY FOR THE WIDEST VARIETY OF APPLICATIONS

Long Duration

For telephone company central offices and other applications requiring constant current or constant power for longer than two hours, GNB offers flooded batteries from 190 to 4000 amp-hours. GNB's long duration batteries have optimized grids and separators to combat the effects of normal grid corrosion and growth.

High Rate

GNB manufactures batteries for applications requiring a large amount of power for relatively short periods of time (e.g. a computer room UPS system). These high rate batteries are available with nominal ratings of 1600 to 4200 watts per cell. The grids and separators in the high rate batteries are design-optimized to allow current to flow out of the battery as quickly as possible. Solid copper terminal posts also improve high rate performance while increasing connection integrity. An optional wrapped separator design minimizes the effects of the positive plate shedding.

General Purpose

GNB's general purpose flooded batteries combine features of long duration and high rate batteries to give excellent one minute rates as well as superior long duration performance (50 to 2600 amp-hours). These batteries are the right choice for utility switchgear and control applications that typically have complex duty cycles (e.g. high inrush currents at the start of a discharge followed by lower steady-state rates).

Special Purpose

GNB has flooded batteries designed exclusively for special applications like nuclear power plants.

FLOODED BATTERY SELECTOR GUIDE

Application	Capacity	Type
Long Duration	192 - 480 AH	MCT
Long Duration	2504 - 4000 AH	H1T
High Rate	1609 - 4217 WPC	PDQ
High Rate Wrapped Plate	1518 - 3978 WPC	PWQ
General Purpose	47.5 - 280 AH	TCX
General Purpose	176 - 608 AH	MCX
General Purpose	621 - 2620 AH	NXT
Nuclear	552 - 2552 AH	NCN